

Title (en)

Hydraulic pressure control apparatus for controlling a pressure of a working fluid in a brake cylinder

Title (de)

Hydraulikdrucksteuergerät zum Steuern eines Druckes einer Arbeitsflüssigkeit in einem Radbremszylinder

Title (fr)

Dispositif de commande de pression hydraulique pour commander la pression d'un liquide de travail dans un cylindre de frein

Publication

**EP 1243492 B1 20041208 (EN)**

Application

**EP 02013725 A 19990826**

Priority

- EP 99116904 A 19990826
- JP 24303698 A 19980828
- JP 26864098 A 19980922
- JP 27017298 A 19980924

Abstract (en)

[origin: EP0982207A2] Hydraulic pressure control apparatus for controlling a pressure of a brake cylinder pressure, including a pump device (30) connected to the brake cylinder (18, 24, 50, 52) and including at least one set of a pump (32, 34) for delivering a pressurized fluid to the brake cylinder and a pump operating electric motor (38, 40), a low-pressure source (31) for storing the fluid discharged from the brake cylinder, a solenoid-operated pressure control valve (58, 62) disposed between the low-pressure source and the brake cylinder and operated with an electric energy applied thereto, for controlling the brake cylinder pressure depending upon the electric energy, and a controller (160, 71, 72, 74) including a pressure increase control device (S35, S42, S49, S68, S91) for increasing the brake cylinder pressure by controlling the electric motor, and a pressure reduction control device (S36, S44, S45, S66, S92) for reducing the brake cylinder pressure by controlling the electric energy applied to the control valve. <IMAGE>

IPC 1-7

**B60T 8/36; B60T 8/40**

IPC 8 full level

**B60T 7/12** (2006.01); **B60T 8/24** (2006.01); **B60T 8/32** (2006.01); **B60T 8/36** (2006.01); **B60T 8/40** (2006.01); **B60T 8/48** (2006.01); **B60T 8/50** (2006.01)

CPC (source: EP KR US)

**B60T 7/122** (2013.01 - EP US); **B60T 8/24** (2013.01 - EP US); **B60T 8/3275** (2013.01 - EP US); **B60T 8/36** (2013.01 - EP KR US); **B60T 8/367** (2013.01 - EP US); **B60T 8/405** (2013.01 - EP US); **B60T 8/4059** (2013.01 - EP US); **B60T 8/4063** (2013.01 - EP US); **B60T 8/4081** (2013.01 - EP US); **B60T 8/4827** (2013.01 - EP US); **B60T 8/5093** (2013.01 - EP US)

Cited by

CN112406825A; EP1431151A1; DE19957713B4; DE102014220393A1; DE102014220393B4

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0982207 A2 20000301; EP 0982207 A3 20010425; EP 0982207 B1 20040114; EP 0982207 B8 20060301**; CN 1211235 C 20050720; CN 1250729 A 20000419; CN 1286686 C 20061129; CN 1605516 A 20050413; DE 69914141 D1 20040219; DE 69914141 T2 20041111; DE 69922552 D1 20050113; DE 69922552 T2 20051215; DE 69922552 T8 20060420; EP 1243492 A2 20020925; EP 1243492 A3 20021030; EP 1243492 B1 20041208; EP 1243492 B8 20060301; KR 100342372 B1 20020704; KR 20000017590 A 20000325; US 6913326 B1 20050705

DOCDB simple family (application)

**EP 99116904 A 19990826**; CN 200410089854 A 19990827; CN 99118328 A 19990827; DE 69914141 T 19990826; DE 69922552 T 19990826; EP 02013725 A 19990826; KR 19990035851 A 19990827; US 37761699 A 19990819